

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/089079 A3

(51) International Patent Classification⁷: **G02B 27/01**

(21) International Application Number:
PCT/SE2005/000404

(22) International Filing Date: 18 March 2005 (18.03.2005)

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:
0400730-8 19 March 2004 (19.03.2004) SE

(71) Applicant (for all designated States except US): **AB TRYGGIT** [SE/SE]; Tryggestad, S-387 94 Borgholm (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BRYNIELSSON, Thore** [SE/SE]; Torredsvägen 104, S-429 34 Kullavik (SE).

(74) Agent: **AWAPATENT AB**; Box 11394, S-402 28 Göteborg (SE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

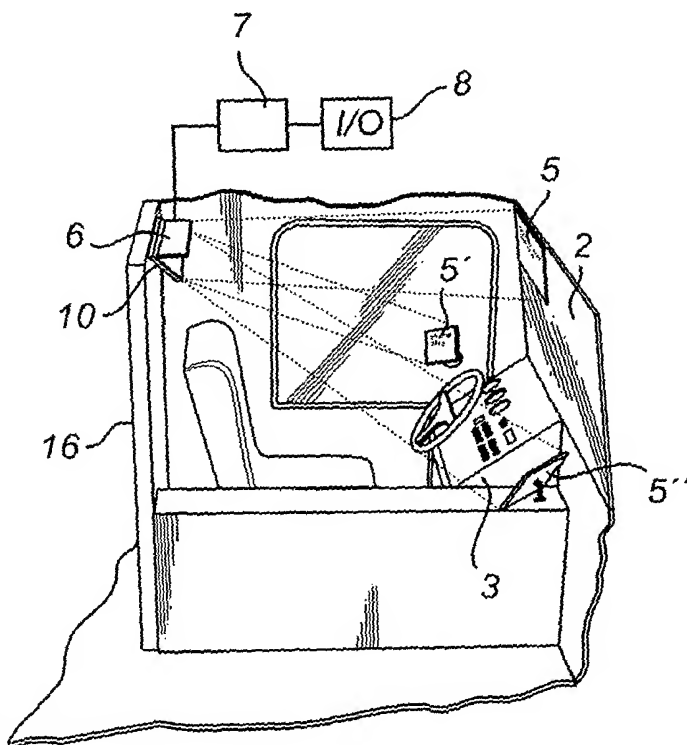
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

[Continued on next page]

(54) Title: DEVICE AND SYSTEM FOR DISPLAY OF INFORMATION, AND VEHICLE EQUIPPED WITH SUCH A SYSTEM



(57) Abstract: A device for displaying information in a vehicle, comprising a unit (6) for creating a real image containing information relevant to a driver (1), to be reflected in a reflective viewing surface (5) located directly above the field of vision (a) actively used by the driver to survey the traffic situation, and thereby generating a virtual image (9). The device further comprises a second reflecting surface (10) provided behind or beside the driver's head, with the driver in his or her normal position, at essentially the same level as the viewing surface or higher, an end section of an optical path between the unit (6) and the viewing surface (5) in use extending between said second reflecting surface (10) and the viewing surface (5). By the optical path extending at least partly in the upper part of the driver's cab, a relatively long (several meters) optical path can be obtained without the need for complex mirror systems. In particular, this applies to commercial vehicles such as lorries and buses, which generally have an essentially vertical windscreen and plenty of free space above and in front of the driver.

WO 2005/089079 A3



CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

17 November 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.